

RELIABILITY TOOLS AND INTEGRATION FOR THE CONCEPT PHASE

OBJECTIVE

This course will look at reliability tools that are used in the concept phase of a project in order to define the reliability requirements of a program. Benchmarking is usually required. The output of this phase is the Reliability Program and Integration Plan. This plan will specify which tools to use and the goals and specifications of each. This is the plan that drives the rest of the program.

WHO SHOULD ATTEND

This course is intended for hardware, software, and reliability engineers as well as product marketing personnel involved in setting reliability goals and writing reliability plans for a product.

OUTLINE

- **Elements of a Reliability Program**
 - Basic Definitions
 - Reliability vs. Cost
 - Product Life Cycle Matrix
 - Integration Phases
 - Integration in the Concept Phase
 - Integration in the Design Phase
 - Integration in the Prototype Phase
 - Integration in the Manufacturing Phase
- **Integration in the Concept Phase**
 - Benchmarking
 - Definition

- Different types of benchmarking
 - Product Benchmarking
 - Process Benchmarking
- How to perform
- How the results of benchmarking lead to a gap analysis
- Gap Analysis
 - Definition
 - How to perform
 - Using Benchmarking and the Gap Analysis to help write the Reliability Program and Integration Plan.
- Reliability Program and Integration Plan
 - Definition
 - How to define the elements of the plan
 - Where to get the metrics
 - Defining the schedule
 - Integrating all of the activities together within the Plan
- **Summary**
 - Reliability vs. Cost
 - Summary of Phases
 - Summary Tools within this Phase
 - Benefits of Integration
 - Next Steps
 - Implementation
 - Further Education in Integration
 - Related courses by Ops A La Carte
 - Contact Information